



SAW Components

Data Sheet B3520

Data Sheet

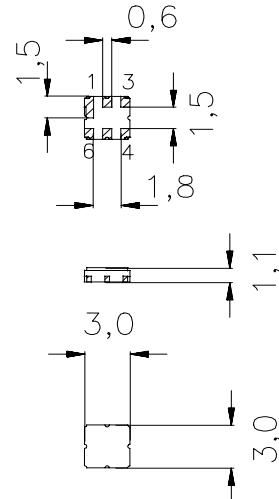


SAW Components
B3520
Low Loss Filter for Automotive Telematics
1575,42 MHz
Data Sheet
Ceramic package DCC6C
Features

- RF low-loss filter for GPS application
- Package for Surface Mounted Technology (SMT)
- Hermetically sealed ceramic package
- No matching network required for operation at $50\ \Omega$
- Extended temperature range for automotive application

Terminals

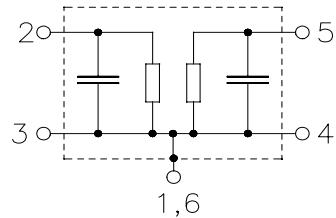
- Ni, gold plated



Dimensions in mm, approx. weight 0,1 g

Pin configuration

2	Input
5	Output
1,3,4,6	Ground



Type	Ordering code	Marking and Package according to	Packing according to
B3520	B39162-B3520-U410	C61157-A7-A56	F61074-V8070-Z000

Electrostatic Sensitive Device (ESD)
Maximum ratings

Operable temperature range	T_A	-40/+105	°C	
Storage temperature range	T_{stg}	-40/+105	°C	
DC voltage	V_{DC}	0	V	
Source power	P_S	0	dBm	source impedance $50\ \Omega$

**SAW Components****B3520****Low Loss Filter for Automotive Telematics****1575,42 MHz****Data Sheet****Characteristics**

Reference temperature: $T_A = -40 \dots +85^\circ\text{C}$
Terminating source impedance: $Z_S = 50\Omega$
Terminating load impedance: $Z_L = 50\Omega$

		min.	typ.	max.	
Center frequency	f_c	—	1575,42	—	MHz
Maximum insertion attenuation	$1574,22 \dots 1576,62 \text{ MHz}$	α_{\max}	—	1,3	1,8
Amplitude ripple (p-p)	$1574,22 \dots 1576,62 \text{ MHz}$	$\Delta\alpha$	—	0,1	1,0
Relative attenuation (relative to α_{\max})	$100,00 \dots 1450,00 \text{ MHz}$	α_{rel}	40	44	—
	$1450,00 \dots 1520,00 \text{ MHz}$		30	34	—
	$1640,00 \dots 1710,00 \text{ MHz}$		25	30	—
	$1710,00 \dots 1750,00 \text{ MHz}$		35	43	—
	$1750,00 \dots 1910,00 \text{ MHz}$		42	44	—
	$1910,00 \dots 2000,00 \text{ MHz}$		40	45	—
Temperature coefficient of frequency	TC_f	—	-30	—	ppm/K

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CharacteristicsReference temperature: $T_A = -40 \dots +105^\circ\text{C}$ Terminating source impedance: $Z_S = 50\Omega$ Terminating load impedance: $Z_L = 50\Omega$

		min.	typ.	max.	
Center frequency	f_c	—	1575,42	—	MHz
Maximum insertion attenuation	1574,22 ... 1576,62 MHz	α_{\max}	1,3	2,0	dB
Amplitude ripple (p-p)	1574,22 ... 1576,62 MHz	$\Delta\alpha$	0,1	1,0	dB
Relative attenuation (relative to α_{\max})	α_{rel}				
100,00 ... 1450,00 MHz		40	44	—	dB
1450,00 ... 1520,00 MHz		30	34	—	dB
1640,00 ... 1710,00 MHz		25	30	—	dB
1710,00 ... 1750,00 MHz		35	43	—	dB
1750,00 ... 1910,00 MHz		42	44	—	dB
1910,00 ... 2000,00 MHz		40	45	—	dB
Temperature coefficient of frequency	TC_f	—	-30	—	ppm/K

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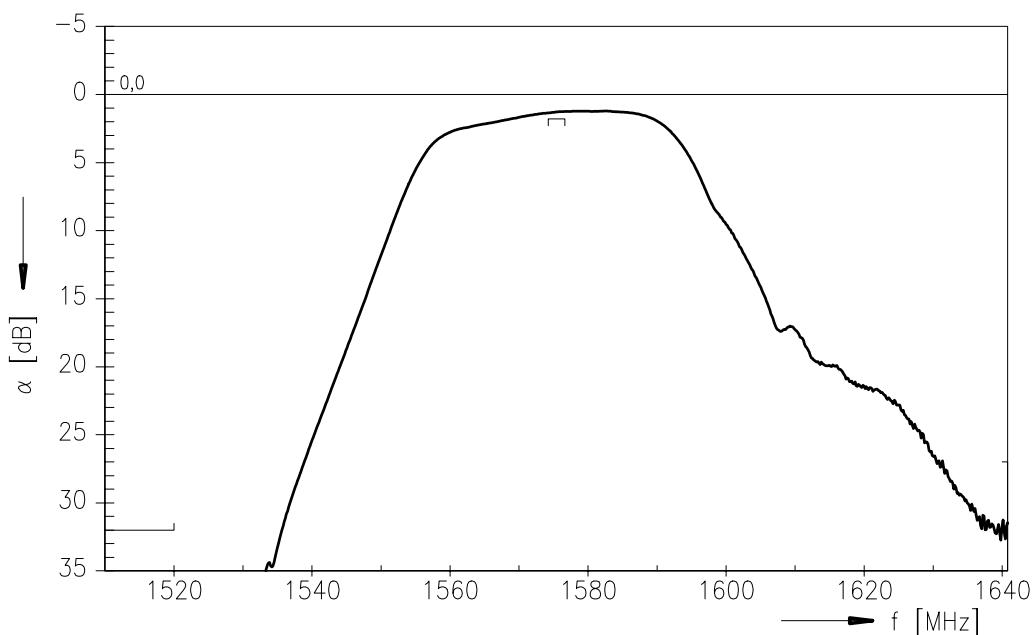
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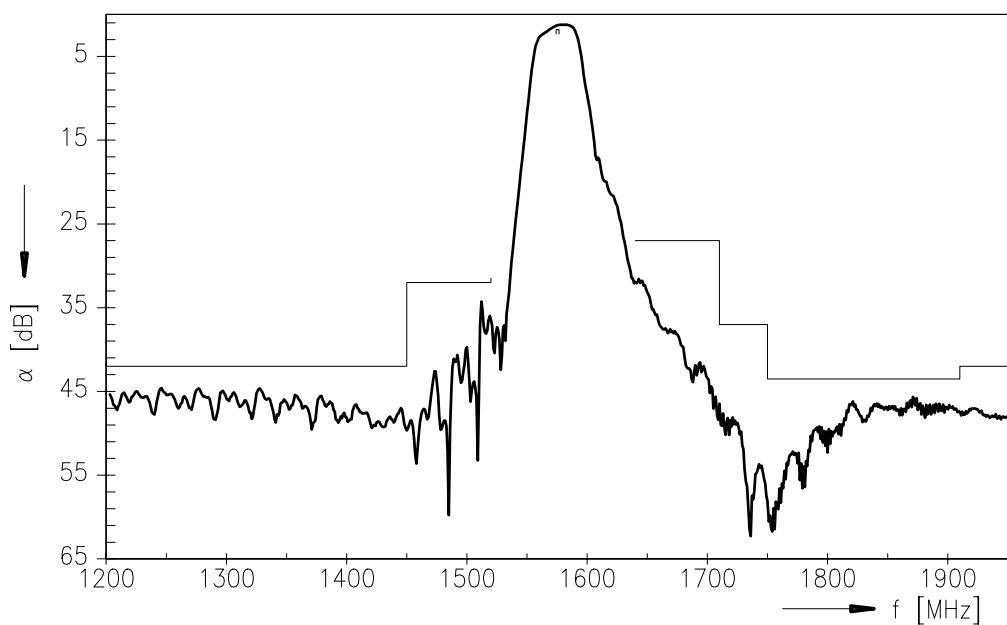
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Transfer function



Transfer function (wideband)





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